SPECIFICATIONS
MODEL SERIES 3234A IEPE ACCELEROMETERS

SPECIFICATION	VALUE	UNITS
PHYSICAL		
WEIGHT	12	grams
SIZE, SQUARE x HEIGHT	.50 x 0.62	inches
MOUNTING PROVISION	10-32 X .150 DEEP TAPPED HOLE	
CONNECTOR, SIDE MOUNTED	10-32 Coaxial	
MATERIAL, BASE, CAP & CONNECTOR	TITANIUM	
SEISMIC ELEMENT TYPE	CERAMIC, PLANAR SHEAR	

	MODELS			
	3234A1	**3234A2**	**3234A3**	
PERFORMANCE				
SENSITIVITY, ± 5% [1]	10	100	500	mV/g
RANGE F.S. FOR ± 5 VOLTS OUTPUT	± 500	±50	±10	g's
FREQUENCY RANGE, ± 5% (all models)		1 to 10,000		Hz
RESONANT FREQUENCY, NOM. (all models)		35		kHz
EQUIVALENT ELECTRICAL NOISE	.007	.0007	.0002	grms
LINEARITY [2] (all models)		±2		% F.S.
TRANSVERSE SENSITIVITY, MAX. (all models)		5		%
BASE STRAIN SENSITIVITY		0.0028		g's/μσ

	3234A1	**3234A2**	**3234A3**	
ENVIRONMENTAL				
MAXIMUM VIBRATION/SHOCK	600/5000	400/5000	200/5000	± gpk
TEMPERATURE RANGE	-60 to +250	-60 to +225	-60 to +180	°F
SEAL, HERMETIC		Glass-to-metal/welded		
COEFFICIENT OF THERMAL SENSITIVITY		.06		%/°F

ELECTRICAL		
SUPPLY CURRENT [3]	2 to 20	mA
COMPLIANCE VOLTAGE RANGE	18 to +30	Volts
OUTPUT IMPEDANCE, TYP.	100	Ω
BIAS VOLTAGE, +10.5 VOLTS NOM.	+11 to +13	VDC
DISCHARGE TIME CONSTANT, NOM.	0.5 – 0.7	Sec
OUTPUT SIGNAL POLARITY FOR ACCELERATION TOWARD TOP	Positive	
ELECTRICAL ISOLATION	10MΩ MIN	

Accessories supplied: (1) Model 6200 mounting stud.

[1] Measured at 100 Hz, 1 grms per ISA RP 37.2.
[2] Measured using zero-based best straight line method, % of F.S. or any lesser range.
[3] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.

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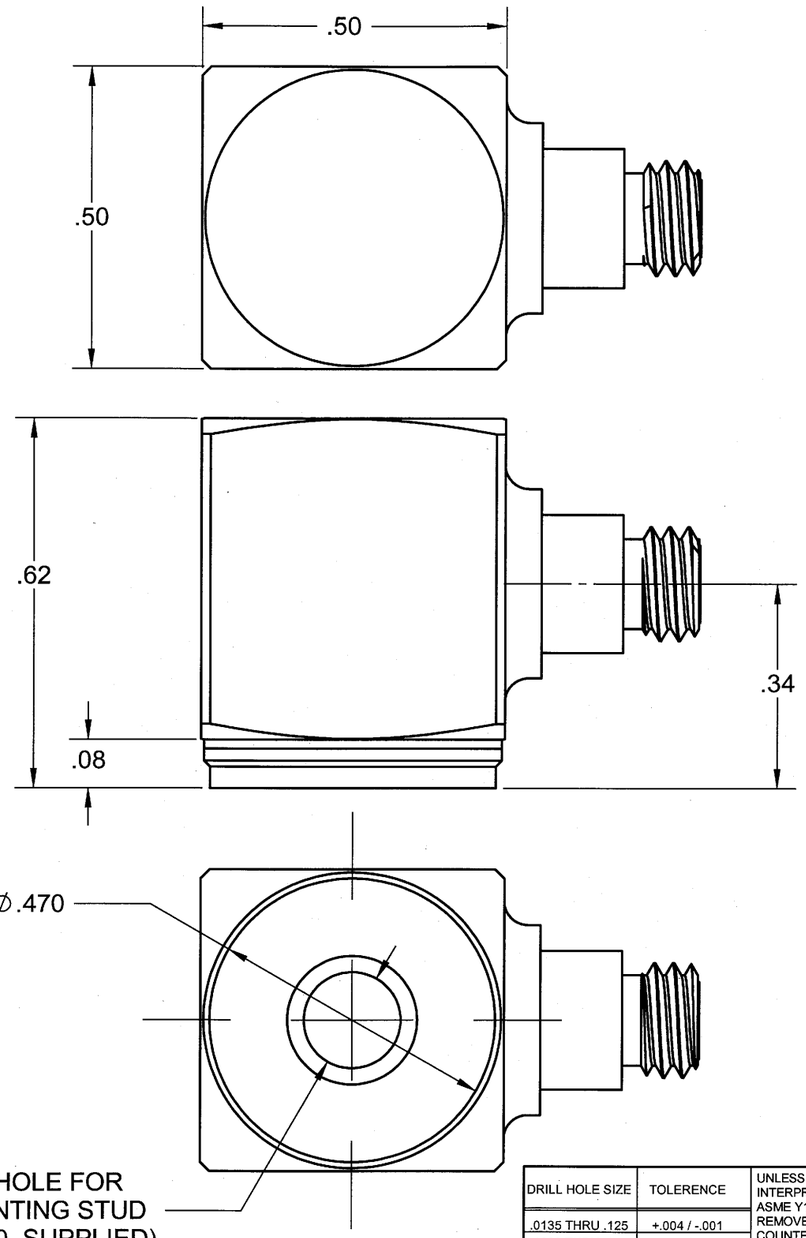
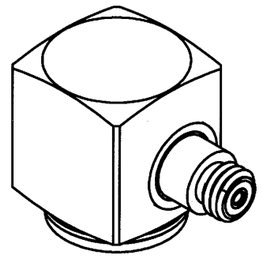
DWG NO 127-3234A | SH 1 | REV A

REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5013	INITIAL RELEASE	JS 01-10-08	CEG	CEG





MODEL	SENSITIVITY	REV	DATE
	mV/g		
3234A1	10	A	10/19/07
3234A2	100	A	10/19/07
3234A3	500	A	10/19/07

DRILL HOLE SIZE	TOLERENCE
.0135 THRU .125	+.004 / -.001
.1260 THRU .250	+.005 / -.001
.2510 THRU .500	+.006 / -.001
.5010 THRU .750	+.008 / -.001
.7510 THRU 1.000	+.010 / -.001
1.001 THRU 2.000	+.012 / -.001

THIRD ANGLE PROJECTION USA

UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
THDS PER MIL-S-7742.
DIMENSIONS APPLY AFTER FINISHING.
ALL MACHINED SURFACES. 63
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS .XX ± .010 .XXX ± .005
ANGLES ± 1°

MATERIAL: Ti 6Al-4V

FINISH:

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	PML	10/19/07
CHK	CEG	01.10.08
APP	CEG	01.10.08
APP		

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: **OUTLINE DRAWING, 3234A**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3234A	A

SCALE: 4:1 | SOLIDWORKS | SHEET 1 of 1

172-0072, REV A